

PACMAN: a Plasma Analyzer for Composition with Miniaturization and Asynchronous Novelty

Completed Technology Project (2014 - 2015)



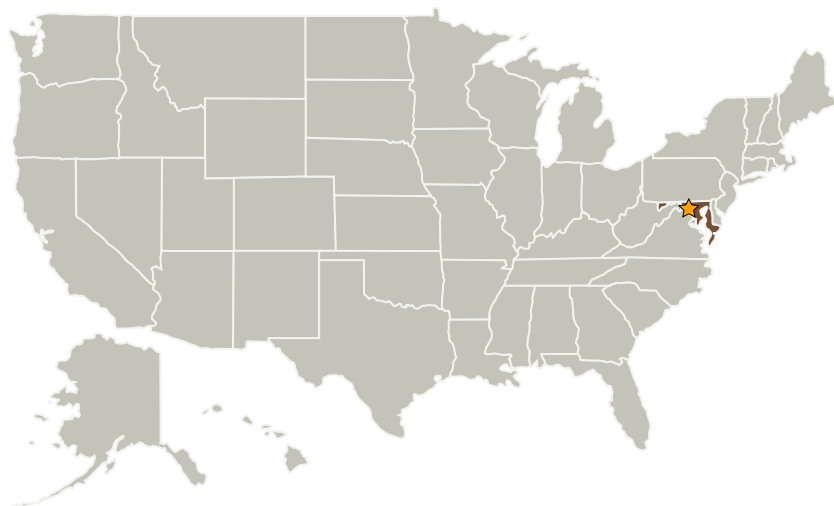
Project Introduction

This effort is technology development related to plasma spectrometers for measuring the lowest energy ambient plasma in the Earth's ionosphere and magnetosphere.

Anticipated Benefits

This effort can result in more mature, capable, instrumentation for future unfunded NASA missions.

Primary U.S. Work Locations and Key Partners



Plasma Analyzer

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations and Key Partners	1
Images	2
Project Website:	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	3

Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations

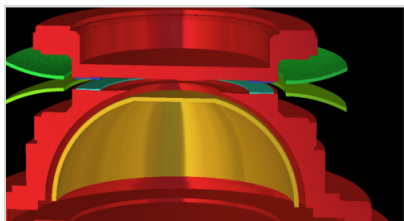
Maryland

PACMAN: a Plasma Analyzer for Composition with Miniaturization and Asynchronous Novelty

Completed Technology Project (2014 - 2015)



Images



Plasma Analyzer

Plasma Analyzer
(<https://techport.nasa.gov/image/16736>)

Project Website:

<http://sciences.gsfc.nasa.gov/sed/>

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Manager:

Nikolaos Paschalidis

Principal Investigator:

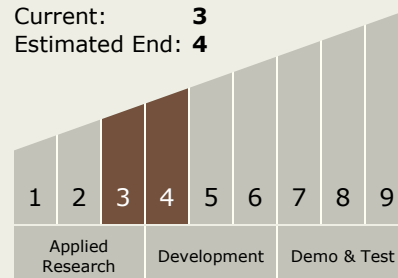
Elizabeth A Macdonald

Technology Maturity (TRL)

Start: 3

Current: 3

Estimated End: 4



PACMAN: a Plasma Analyzer for Composition with Miniaturization and Asynchronous Novelty

Completed Technology Project (2014 - 2015)



Technology Areas

Primary:

- TX12 Materials, Structures, Mechanical Systems, and Manufacturing
 - └ TX12.3 Mechanical Systems
 - └ TX12.3.8 Docking and Berthing Mechanisms and Fixtures